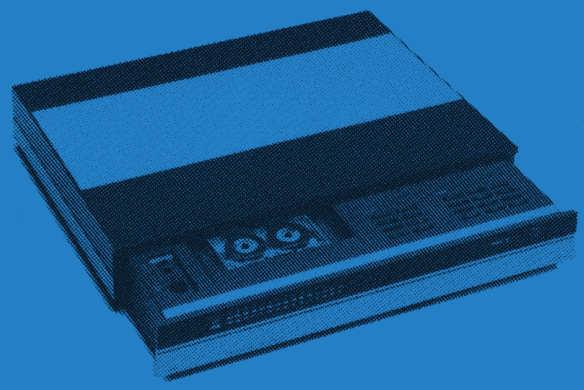
Bang&Olufsen

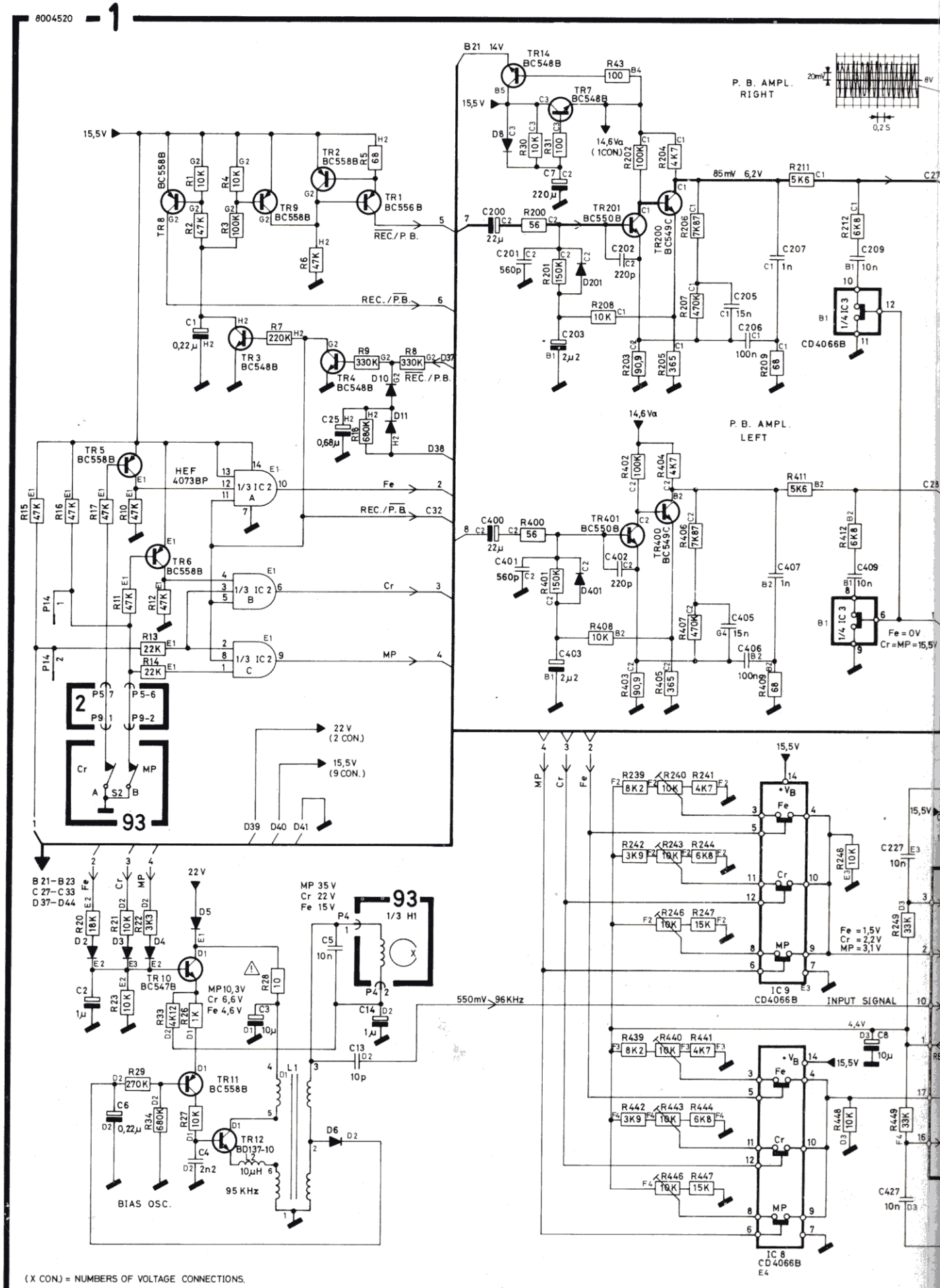


Beocord 5500

**Type 4931, 4932, 4933,
4934, 4935**

SERVICEANLEITUNG/
MANUEL d'ENTRETIEN

DIAGRAM A (Bias Osc., P.B. Ampl., Rec. Ampl., HX PRO)



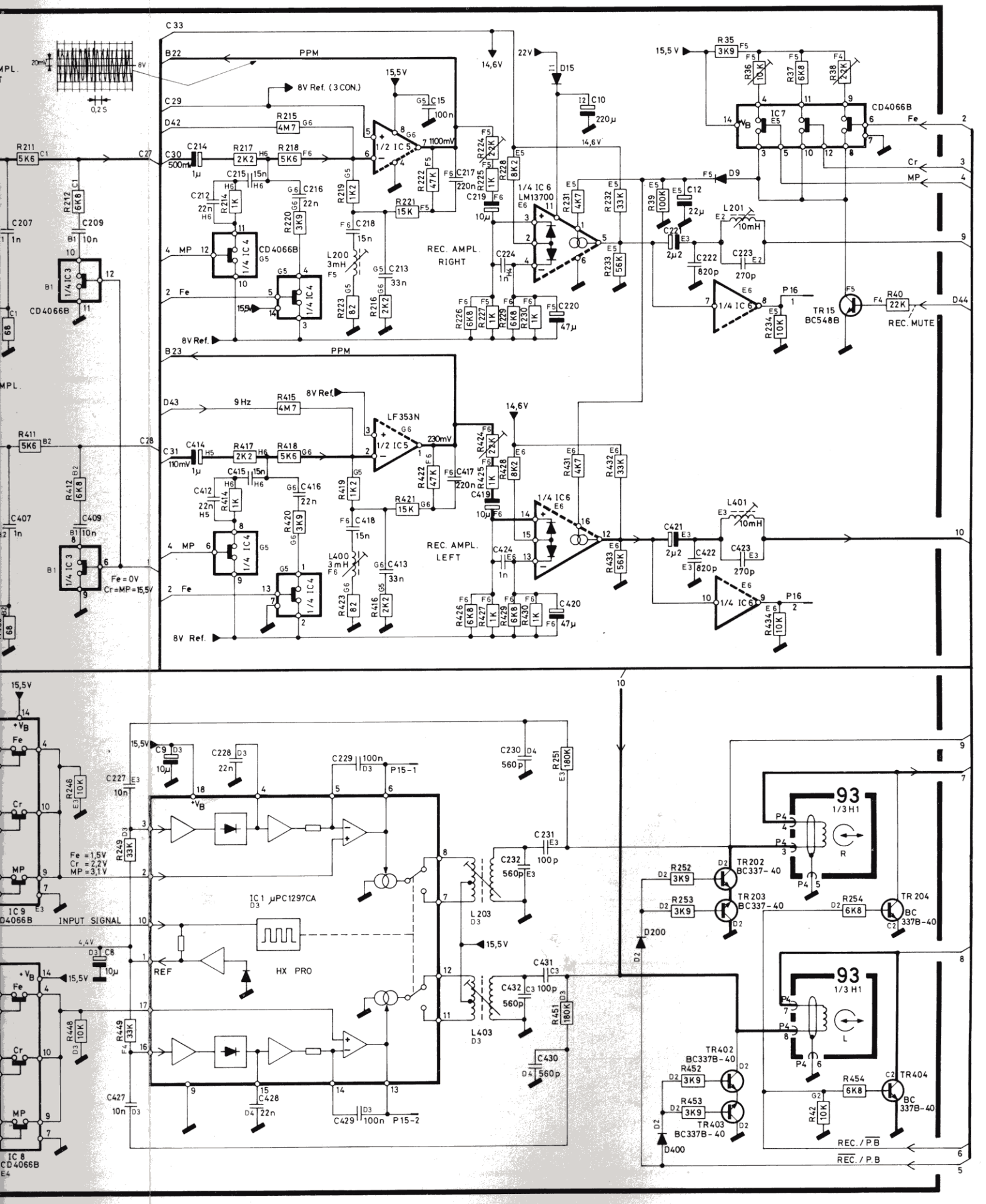
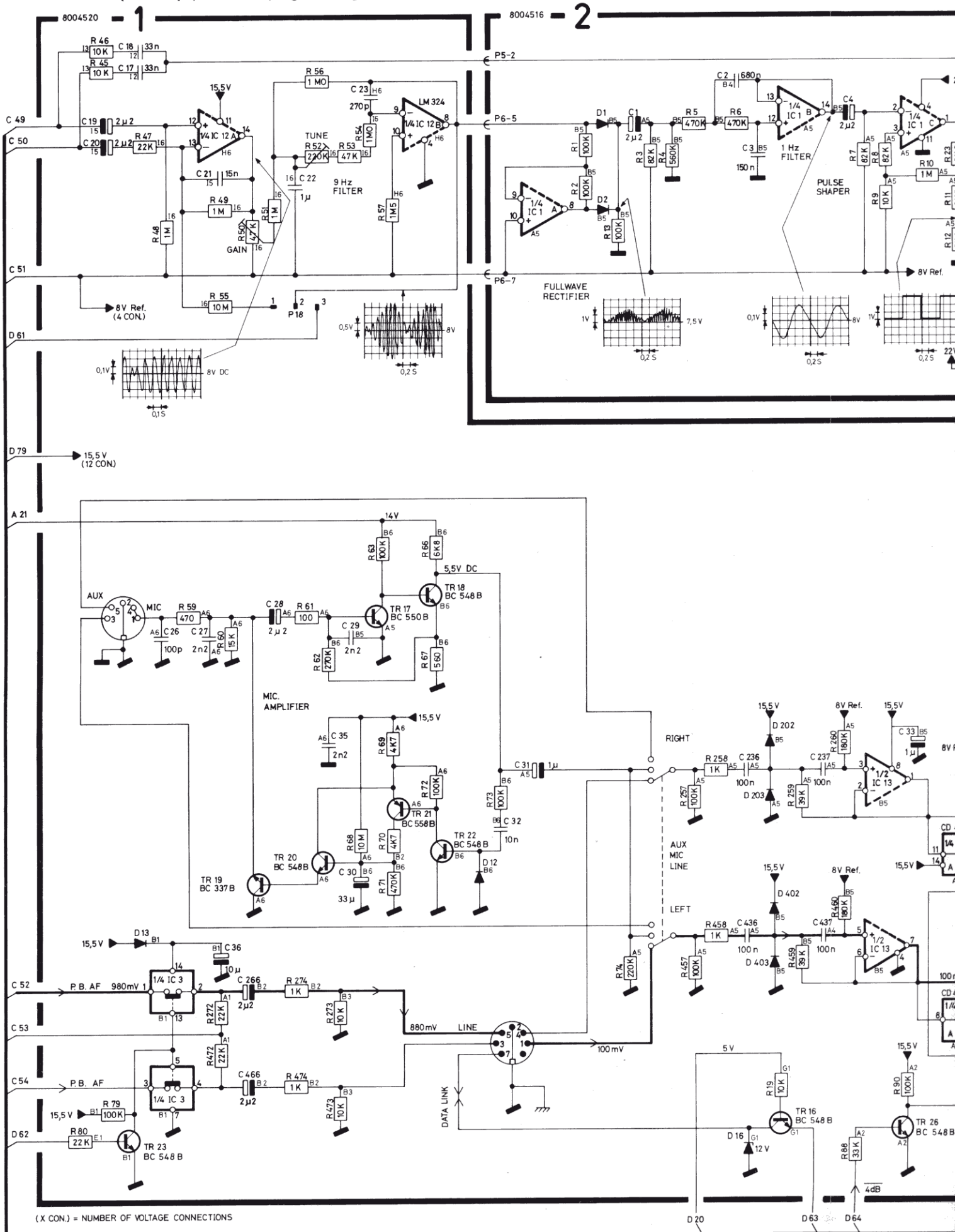

PPM
8V Ref. (3 CON.)
15,5V
14,6V
22V
D15
R35 3K9
R36 10K
R37 6K8
R38 22K
CD4066B
IC7
Fe
Cr
MP
C33
B22
C29
D42
R215 4M7
C214 500m 1µ
R217 2K2
R218 5K6
C30
R211 5K6
C27
C215 15n
C212 22n
R214 1K
C216 22n
R220 3K9
R219 1K2
R221 15K
C217 220n
R222 47K
R224 22K
R225 1K
R228 8K2
C219 10µ
1/4 IC 6 LM13700
R231 4K7
R232 33K
R233 56K
C224 1n
C218 15n
L200 3mH
C213 33n
R223 82
R216 2K2
REC. AMPL. RIGHT
R226 6K8
R227 1K
R229 6K8
R230 1K
C220 47µ
C10 220µ
R39 100K
C12 22µ
C22 2µ2
L201 10mH
C222 820p
C223 270p
P16
TR15 BC548B
R40 22K
REC. MUTE
D9
D44
8V Ref.
B23
D43
9 Hz
R415 4M7
LF 353N
C31 110mV 1µ
C414
R417 2K2
R418 5K6
C415 15n
C412 22n
R414 1K
C416 22n
R420 3K9
R419 1K2
R421 15K
C417 220n
R422 47K
R424 22K
R425 1K
R428 8K2
C419 10µ
R431 4K7
R432 33K
R433 56K
C418 15n
L400 3mH
C413 33n
R423 82
R416 2K2
REC. AMPL. LEFT
R426 6K8
R427 1K
R429 6K8
R430 1K
C420 47µ
C424 1n
C421 2µ2
L401 10mH
C422 820p
C423 270p
R434 10K
R411 5K6
C28
R412 6K8
C407 1n
C409 10n
C207 1n
R212 6K8
C209 10n
IC 3 1/4
IC 4 1/4
CD4066B
Fe = 0V
Cr = MP = 15,5V
68
Fe
MP
Cr
IC 9 CD4066B
INPUT SIGNAL
IC 8 CD4066B
C9 10µ
C228 22n
C229 100n
P15-1
C230 560p
R251 180K
C227 10n
R246 10K
R249 33K
Fe = 1,5V
Cr = 2,2V
MP = 3,1V
IC 1 µPC1297CA
HX PRO
REF
4,4V
C8 10µ
C231 100p
C232 560p
L203
C431 100p
C432 560p
L403
R451 180K
C430 560p
R448 10K
R449 33K
C427 10n
C428 22n
C429 100n
P15-2
93 1/3 H1
R
L
TR202 BC337-40
TR203 BC337-40
TR204 BC 337-40
TR402 BC337B-40
TR403 BC337B-40
TR404 BC 337-40
R252 3K9
R253 3K9
R254 6K8
R452 3K9
R453 3K9
R454 6K8
R42 10K
D200
D400
REC. / PB
REC. / P.B

DIAGRAM B (Mic. Ampl., Rec. Level, Signal Stregth Sensor)



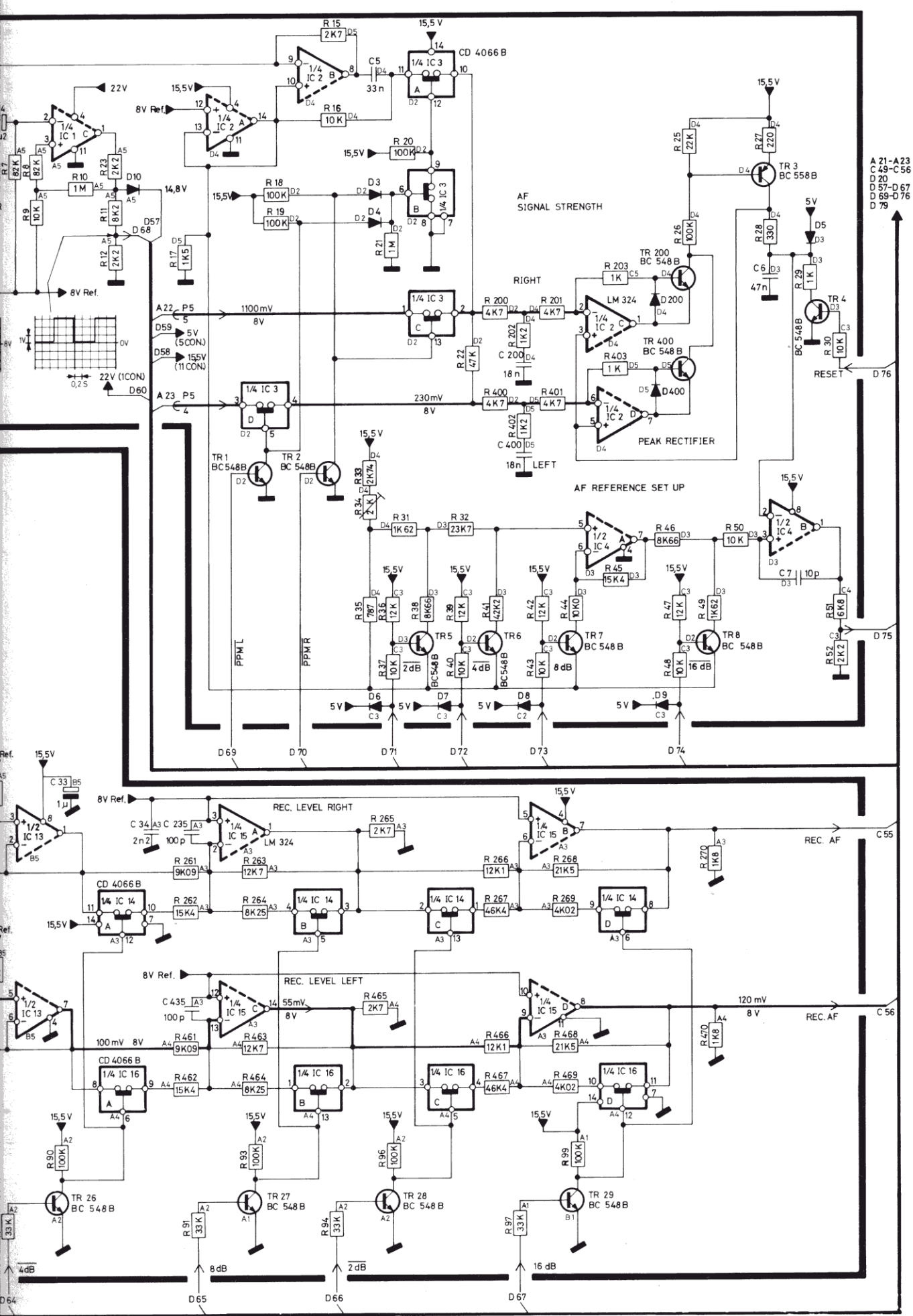
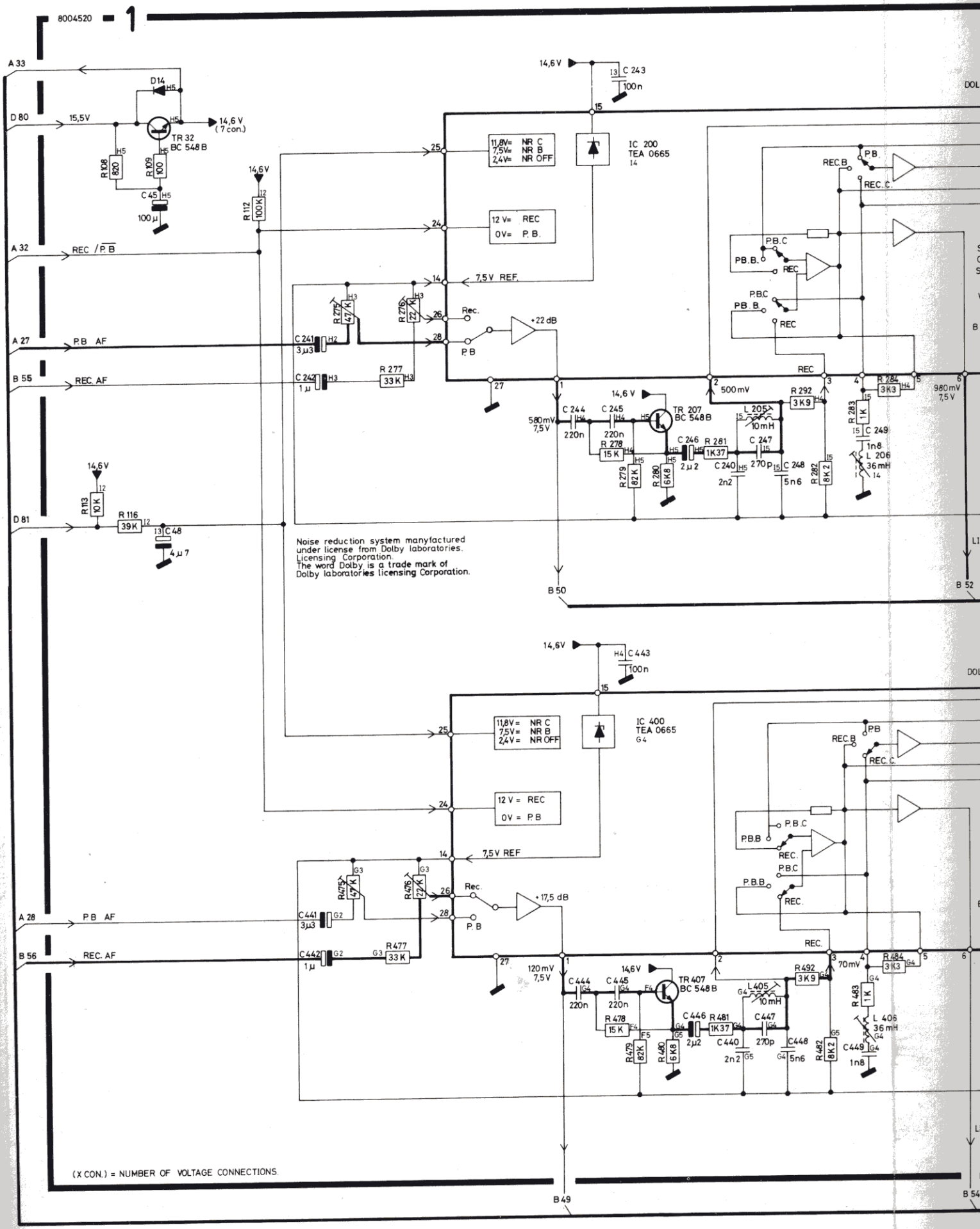

AF
SIGNAL STRENGTH
RIGHT
LEFT
PEAK RECTIFIER
AF REFERENCE SET UP
RESET
PPWL
PPWR
REC. LEVEL RIGHT
REC. LEVEL LEFT
REC. AF
A 21-A 23
C 49-C 56
D 20
D 57-D 67
D 69-D 76
D 79
CD 4066 B
LM 324
BC 548 B
BC 558 B
1100mV
230mV
55mV
120 mV
8V
22V
15,5V
14,8V
5V
4dB
8dB
2dB
16 dB

DIAGRAM C (Dolby NR B, C)



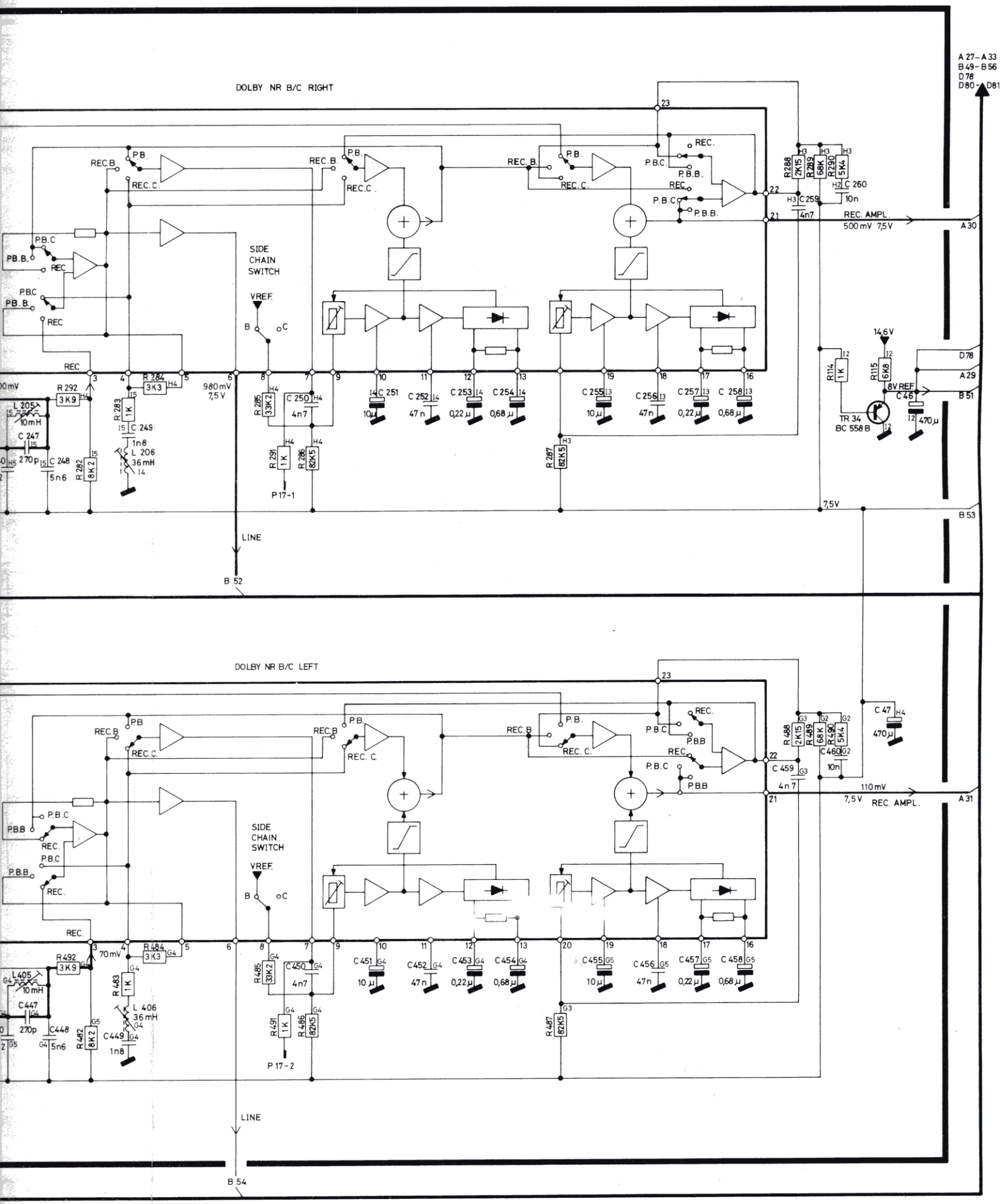
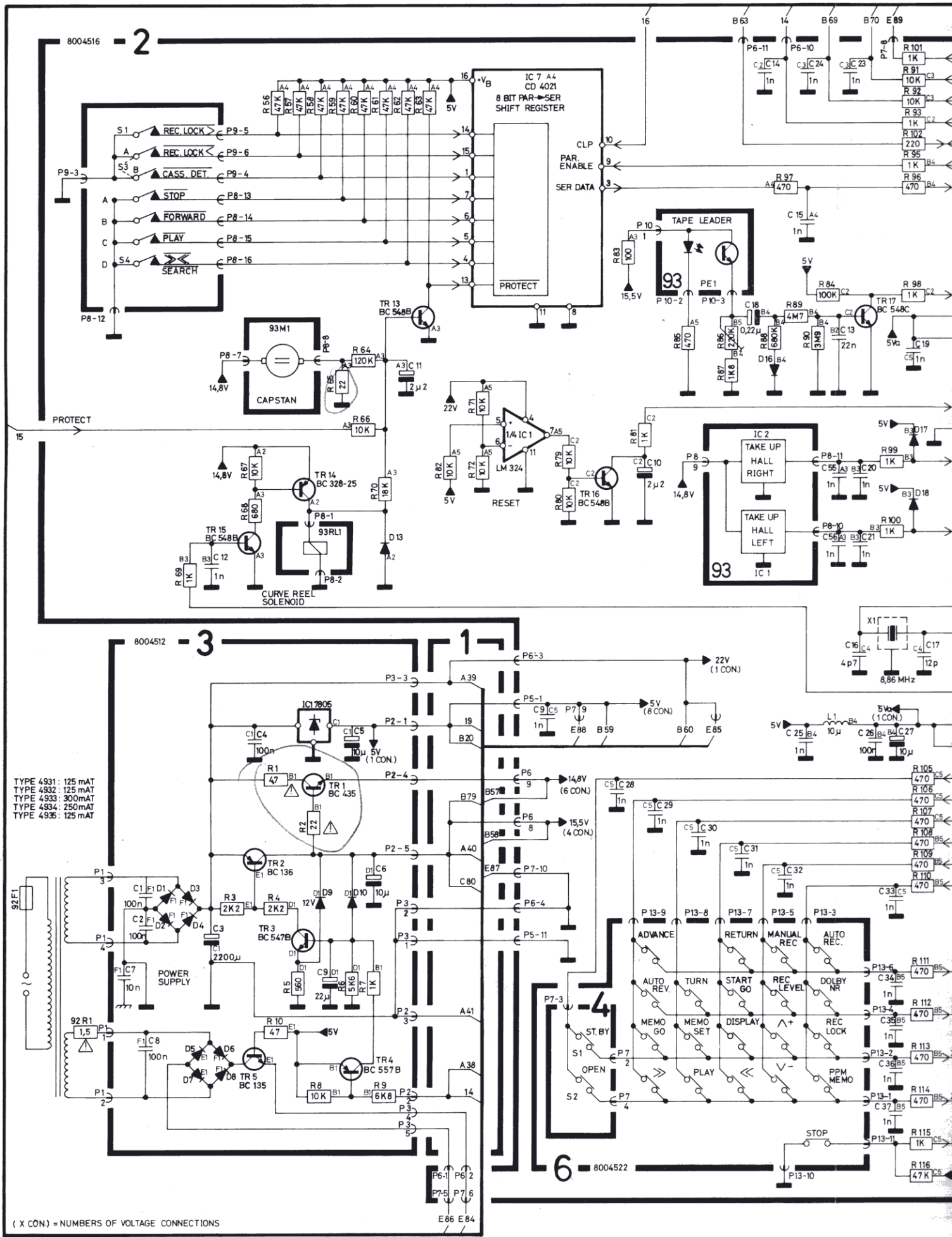

DOLBY NR B/C RIGHT
A 27 – A 33
B 49 – B 56
D 78
D 80 – D 81
REC.B.
P.B.
REC.C.
P.B.C
P.B.B.
REC.
SIDE CHAIN SWITCH
VREF.
B
C
R 288 2K15
R 289 68K
R 290 5K4
C 259 4n7
C 260 10n
REC. AMPL. 500 mV 7,5 V
A 30
14,6 V
R 114 1K
R 115 6K8
8 V REF.
C 46 470µ
TR 34 BC 558 B
D 78
A 29
B 51
7,5 V
B 53
980 mV 7,5 V
R 292 3K9
L 205 10mH
C 247 270p
C 248 5n6
R 282 8K2
R 283 1K
C 249 1n8
L 206 36mH
R 284 3K3
C 250 4n7
R 285 33K2
R 291 1K
R 286 82K5
P 17-1
C 251 10µ
C 252 47 n
C 253 0,22µ
C 254 0,68µ
C 255 10µ
C 256 47n
C 257 0,22µ
C 258 0,68µ
R 287 82K5
LINE
B 52
DOLBY NR B/C LEFT
C 47 470µ
R 488 2K15
R 489 68K
R 490 5K4
C 460 10n
C 459 4n7
110 mV 7,5 V REC. AMPL.
A 31
70 mV
R 492 3K9
L 405 10mH
C 447 270p
C 448 5n6
R 482 8K2
R 483 1K
L 406 36mH
C 449 1n8
R 484 3K3
C 450 4n7
R 485 33K2
R 491 1K
R 486 82K5
P 17-2
C 451 10 µ
C 452 47 n
C 453 0,22µ
C 454 0,68µ
C 455 10µ
C 456 47n
C 457 0,22µ
C 458 0,68µ
R 487 82K5
LINE
B 54

DIAGRAM D (Control Circuits, Power Supply)



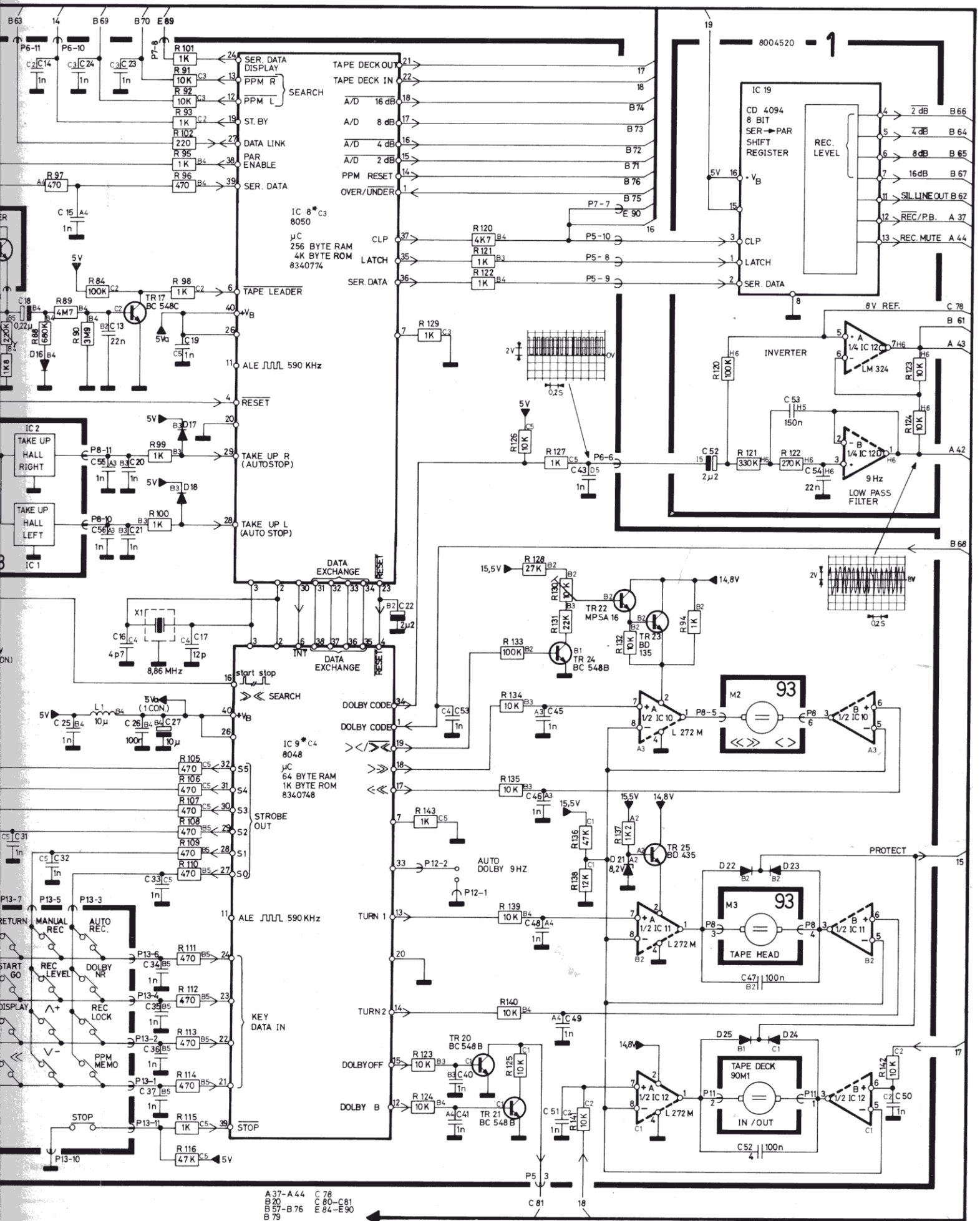

8004520 -1
IC 19
CD 4094
8 BIT
SER→PAR
SHIFT
REGISTER
REC. LEVEL
IC 8 C3
8050
µC
256 BYTE RAM
4K BYTE ROM
8340774
IC 9 C4
8048
µC
64 BYTE RAM
1K BYTE ROM
8340748
SER. DATA DISPLAY
PPM R
PPM L
SEARCH
ST. BY
DATA LINK
PAR ENABLE
SER. DATA
TAPE DECK OUT
TAPE DECK IN
A/D 16 dB
A/D 8 dB
A/D 4 dB
A/D 2 dB
PPM RESET
OVER/UNDER
CLP
LATCH
SER. DATA
TAPE LEADER
+VB
ALE 590 KHz
RESET
TAKE UP HALL RIGHT
TAKE UP HALL LEFT
TAKE UP R (AUTOSTOP)
TAKE UP L (AUTO STOP)
DATA EXCHANGE
INT
8,86 MHz
start stop
SEARCH
DOLBY CODE
STROBE OUT
S5
S4
S3
S2
S1
S0
KEY DATA IN
MANUAL REC
AUTO REC.
REC LEVEL
DOLBY NR
REC LOCK
PPM MEMO
STOP
AUTO DOLBY 9HZ
TURN 1
TURN 2
DOLBY OFF
DOLBY B
TR 17 BC 548C
TR 20 BC 548 B
TR 21 BC 548 B
TR 22 MPSA 16
TR 23 BD 135
TR 24 BC 548B
TR 25 BD 435
INVERTER
LM 324
8 V REF.
9 Hz LOW PASS FILTER
TAPE HEAD
TAPE DECK 90M1
IN / OUT
PROTECT
2 dB
4 dB
8 dB
16 dB
SIL. LINE OUT
REC/P.B.
REC. MUTE
A 37-A 44 C 78
B 20 C 80-C 81
B 57-B 76 E 84-E 90
B 79

DIAGRAM E (Display)